| Human Computer Interaction | | | | | |
|--------------------------------------|--|--|--|--|--|
| CompSci 345 | | | | | |
| | | | | | |
| Lecture 1 - Introduction COMPSCI 345 | | | | | |









| Week | Торіс | Reference | | | | |
|------|---------------------------------|--------------|--|--|--|--|
| 7 | Evaluation (demos in tutorials) | Chap 9 | | | | |
| 8 | User support & Universal design | Chap 10 & 11 | | | | |
| 9 | Models & Theories | Chap 12 & 13 | | | | |
| 10 | (reserve the right to | Chap 14 & 15 | | | | |
| 11 | how we handle these | Chap 16 & 17 | | | | |
| 12 | later weeks) | Chap 18 | | | | |

| Week | Торіс | Reference |
|------|--|------------|
| 1 | Intro Design Basics | Chap 5 |
| 2 | HCI in the design process & Design Rules | Chap 6 & 7 |
| 3 | The Human | Chap 1 |
| 4 | The Computer (no lecture Wed or Thu – work on deliverable 1 of Asnmt 1) | Chap 2 |
| 5 | The Interaction & Paradigms | Chap 3 & 4 |
| 6 | Implementation support (no | Chap 8 |





Assessment 2 of 2

- If you miss the test or exam you **must** apply for an aegrotat through the exam office
- · Anything to do with assignments, talk to the lecturer

| | Assignments | % | Due |
|----|--------------------------|---|---|
| | Design & Build | | |
| | Design | 4 | Hand up in lecture Monday 14 August |
| | Build & Demo | 4 | Demo in tutorial week of 11 September (and select groups for usability study); CD to drop box by 15 September |
| | Usability Study | 4 | 6 October |
| | Modelling | 3 | 20 October |
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Assessment 1 of 2

| Assignments | 15% | See below |
|-------------|-----|----------------------------------|
| Test | 15% | 18 September 6.30-8pm in 109-B28 |
| Exam | 70% | ТВА |

- You must pass the practical (assignments)
- You must pass the theory (exam + test)
- You must pass the assignments + test + exam
- Grades held on Cecil <u>https://cecil.auckland.ac.nz/</u>

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HCI Basics - HCI is a multi-disciplinary subject, we draw on - Computer science - Psychology - Design

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A challenging interaction scenario This is about Finding user needs / constraints Design Interaction Programming



<u>Tutorials</u>

- Are informal this year (generally unsupervised and without a structured activity, almost always unsupervised)
- HOWEVER, it's a really, really good idea to make regular attendance a habit
 - It's time and space set aside for your group to do its thing
- On week 7 we meet formally for the demo

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Fitts Law

- One of the very basic interaction 'laws' is Fitts Law (pg 441 – 443)
- It basically states that the further 2 things are apart the longer it takes to move from one to another (e.g., with a mouse cursor)
- · It is often used to measure interaction efficiency
- We have written a little play program for you to experiment with in this week's tutorial (see, the tutorials ARE worthwhile!)

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Fitts Law (contd.)

• Fitts' Law describes the time taken to hit a screen target:

```
Mt = a + b \log_2(D/S + 1)
```

where:

a and b are empirically determined constants (and they differ depending on the device – such as mouse v. trackback) Mt is movement time D is Distance

S is Size of target

- Try the program and see if your times fit the curve
- Is YOUR a and b better than your classmate's?

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